



Tool Steel M2



A hardenable, high-speed steel with well-balanced toughness, wear resistance and high hardness. This material is mainly used for abrasive tools, cold work punches, dies, and other cutting applications.

Part Properties

Measurement	Unit	Value	Test Method
Tensile strength	MPa	1,100	AISI M2
Yield strength	MPa	700	AISI M2
Hardness	HRC	47.7	AISI M2

Composition

	MIN	MAX
Cr	3.75%	4.50%
Ni		0.30%
Mo	4.50%	5.50%
V	1.75%	2.20%
Si	0.20%	0.45%
Mn	0.15%	0.40%
W	5.50%	6.75%
P		0.03%
S		0.03%
C	0.70%	1.00%
Fe	Balance	Balance

Values determined by by third party test facility according to DIN EN ISO 6892-1:2020-06 - Process B / Specimen shape according to DIN 50125 - B6x30 / Relative density usually between 97% - 99% / Part properties impacted by different factors (part design & geometry, etc.) - Version 10/2022

Workflow

Validated workflows need to be followed to achieve properties as provided in the TDS. Examples of validated workflow steps are listed below. Users should defer to the most current workflow information for best results which can be found at support.nexa3d.com.

Additional methods can be found by contacting us at www.nexa3d.com.



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